## HISTORIC PROPERTY INVENTORY FORM

INDENTIFICATION Field Site No. Site Name Historic Common Field Recorder Owner's Name Address	1310-N OAHP No. Date Recorded 13-Feb-95  Radioactive Liquid Chemical Waste Treatment Facility Golfball/Chemical Waste Storage and Pumphouse/Silo Kristine m. Bowen, Evaluator: Darby Stapp			State of Washington, Department of Community Developme Office of Archaeology and Historic Preservation 111 21st Avenue Southwest, Post Office Box 48343 Olympia, Washington 98504-8343 (206)753-4011  LOCATION SECTION Address City/Town/County/Zip Code Richland, WA/Benton County/99352 Twp. 14N Range 26E Section 28 I/4 Section NE 1/4 1/4 Sec SW Tax No./Parcel No. Quadrangle or map name Coyote Rapids 7.5 min. series			
Status  X Survey/Inventory National Registe State Register Determined Eligi Determined Not Other (HABS, H. Local Designation	r ble Eligible AER, NHL)	Photography Photography Neg. No. 8507753-3ci (Roll No. & Frame No.) View of Outside of "Golf Ball" Date 27-Sept-85	n	UTM References Zone 11 Plat/Block/Lot Supplemental Map(s) 100-6	<b>Easting</b> 303974 <b>Northing</b> 5172485		
Building Type Plan Structural System	n es/Structural Types Industrial Spherical and Irregular Steel and Reinforced Concrete	Roof Type Gable Hip X Flat Pyramidal Monitor X Other (specify)	Object District				
No. of Stories  Cladding (exterior Log Horizontal Wood Rustic/Drop Clapboard Wood Shingle Board and Batte Vertical Board Asbestos/Aspha Brick Stone	Siding	Gambrel N/A Shed  Roof Material Wood Shingle Wood Shake Composition Slate Tar/Built-up Tile Metal (specify X Other (specify N/A Not visible		High Styles/Forms (Check of Greek Revival	one or more of the following)  Spanish Colonial Revival/Mediterranean		
Storie Stucco Terra Cotta X Concrete/Concre Vinyl/Aluminum X Metal (specify) Other (specify) Integrity Changes to plan	Siding Steel  (Include detailed description in Description of Physical Appea	Foundation  Log Concrete  Post & Pier Block  Stone X Poured  Brick Other (specify)  Not visible	Extensive	Greek Revival Gothic Revival Italianate Second Empire Romanesque Revival Stick Style Queen Anne Shingle Style Colonial Revival Beaux Arts/Neoclassica Chicago/Commercial St American Foursquare Mission Revival	Tudor Revival Craftsman/Arts & Crafts Bungalow Prairie Style Art Deco/Art Moderne Rustic Style International Style Northwest Style Commercial Vernacular		
Changes to window Changes to original Changes to interior Other (specify)	s	X		Vernacular House Types Gable Front Gable Front and Wing Side Gable	Cross Gable Pyramidal/Hipped Other (specif		

## NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

Ag	riculture	Conservation		Politics/Government/Law				
Ard	chitecture/Landscape Architecture	Education		Religion				
Art	ts	Entertainment/Recreation		Science & Engineering				
Co	ommerce	Ethnic Heritage (specify)		Social Movements/Organizations				
Co	ommunications	Health/Medicine		Transportation				
Co	mmunity Planning/Development	Manufacturing/Industry	X	Other (specify) Manhattan Project & Cold War Era				
		Military	Х	Study Unit Sub-Theme(s) (specify)				
	•		-	Cold War/Nuclear Fuel Production				
Stateme	nt of Significance		Waste Treatment (Liquid)					
Date o	of Construction 1964	Architect/Engineer/Builder General Electric						
X In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.								
X In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).								

The 1310-N Facility consists of two structures: a steel tank and a concrete pumphouse silo, which served a secondary role in the waste management subsystem at the 100-N Area. The 900,000-gal (3,407,000-L) steel tank was used for collection of reactor decontamination chemicals and rinse water at the 100-N Area. The chemicals were stored and transferred to either a crib or to a rail loadout station. Approximately 600,000 gal (2,271,000 L) of this capacity was used during reactor decontamination. The pumphouse silo contains values and piping equipment for controlling transfers of waste water between rail car loadout stations, the "golfball" storage tank, and cribs at the 100-N Area. The design and equipment is unique to nuclear decontamination technology and the "golfball" portion of the 1310-N Facility possesses distinctive architectural features which has made it an important piece of the N Reactor visual landscape.

This property is not associated with an important person (Criterion B), does not possess any distinctive architectural features or methods of construction (Criterion C), and does not qualify under Criterion D as the principal source of important information. However, the 1310-N Facility qualifies under Criterion A due to its association with the Cold War production of plutonium at N Reactor, and its contribution to Reactor Operations, specifically the Waste Management System. Therefore, it is the conclusion of the U.S. Department of Energy that the 1310-N Facility is eligible under Criterion A for inclusion on the National Register of Historic Places as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

## **Description of Physical Appearance**

The spherical steel structure, also known as the "Golfball", is constructed of a high-earthen berm around it. An epoxy coating was applied to the tank interior in 1975 to provide additional protection against potential leakage and to prolong the useful life of the tank. The tank measures 63 ft (19 m) in diameter.

The pumphouse silo is 40 ft (12 m) deep, constructed of reinforced concrete, and houses the waste piping valve pit and sump. It is situated within the berm surrounding the spherical steel structure. The concrete structures maximum measurements are 30 ft by 20 ft (9 m by 6 m); 600 ft<sup>2</sup> (54 m<sup>2</sup>). This measurement includes a 26-ft- (8-m) diameter tank connected to a 20-ft- (6-m) long concrete structure. The 1310-N Facility is not operational at this time and no significant changes have been made to these structures.

The N Reactor UTM coordinates are as follows: Northeast corner - 303974E, 5172485N; southeast corner - 303974E, 5171639N; southwest corner - 303069E, 5171639N; northwest corner - 303069E, 5171639N; northwest corner - 303069E, 5172485N.

## **Major Bibliographic References**

Bechtel Hanford, Inc. 1994. "Pre-Existing" Conditions Survey of Hanford Site Facilities to be Managed by Bechtel Hanford, Inc. BHI-00221, Rev. 00, Phase II. Byrd, W.D. 1962. Specifications for Chemical Waste Storage Facility Building 1310N. HWS-5563, Project CAI-816, April 19, 1962. Westinghouse Hanford Company. 1988. N Reactor Updated Safety Analysis Report. WHC-SP-0297, Volume 6, Section 11.3.2.

Chemical Waste Storage Facility Steel Tank & Pipe Support, Drawing No. H-1-32227, 1986.